

DIVERSIFICATION ON SOUTHERN FARMS

Demand for Staple Rapidly Increasing All Over World.

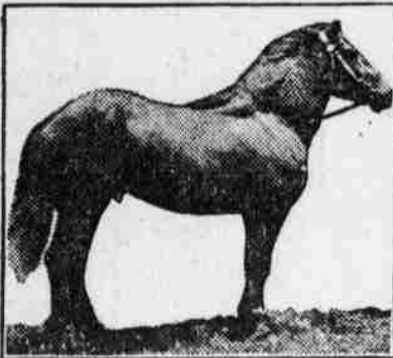
COTTON IS GREAT CASH CROP

Farmers Are Advised to Supplement It With Thoroughly Good Permanent Pastures, Inaugurating System of Rotation.

(By G. H. ALFORD.)

I do not wish to be understood as advocating the diversification of crops to the extent of developing a scarcity of raw cotton to meet the demand of the consuming world. Such a course would be fatal to our cotton-growing interests in more ways than one. I am anxious to see a sufficiency of raw cotton produced each year to meet all demands of consumption at, say 12 cents a pound.

Cotton is the greatest cash crop grown. The demand for it is rapidly increasing. The demands of the consuming world double every 22 years. If we estimate 13,000,000 bales as a minimum supply on the part of the United States for the world's clothing at the present time, it will require 26,000,000 bales in 1932 and 52,000,000 bales in 1954 to meet the demand for commerce. I do not advise the farmers of the cotton belt to supplant cotton as the main cash crop, but urge all of them to supplement it with thoroughly good permanent pastures, leguminous crops, grazing crops, forage crops and good live stock. The sensible thing for each farmer to do is to largely reduce his acreage in cotton, practice a system of rotation, including leguminous crops, and raise mules and horses, cattle, hogs, poultry and other live stock. Plant fewer acres in cotton, plant prolific seed, fertilize and cultivate better and obtain an increasing yield of lint cotton per acre. The acres which will not be needed for cotton under this modern system of farming can be thoroughly sodded in grasses and clovers and planted in leguminous crops, corn, oats, rape, sorghum and cane. Under these advanced methods the soil will rapidly increase in fertility, the money obtained for cotton will be kept at home, the cotton crop will cease to bear the entire burden of the



Colt Raised in Alabama.

total expense of each farm, the inevitable credit system that has for 40 years dragged the growers bound and broken will no longer exist, and the growers will each year grow in strength and permanent prosperity.

The first efforts at breaking away from cotton usually consist in going largely into another single crop system of farming rather than going into the production of a variety of crops. The evils of the new system are much greater than those of the all-cotton system. Many farmers rush into the truck business. Of course, truck crops should be grown on every farm and, in some particular localities, they may constitute the main reliance for cash, but I assert positively that the truck business is a gamble for the average cotton farmer and that he will win just enough to cause him to put up all he has and lose. Trucking has lured many a farmer to financial ruin.

James J. Hill, one of the greatest thinkers of this age, says: "Give us a system of farming that will greatly increase the fertility of the soil." He further states: "Forty years ago a farmer had to provide for but one other than himself. Today every farmer has to produce food for two besides himself."

Hon. Henry Wallace recently said: "The nineteenth century farmer, speaking generally, was no farmer at all, but a miner of soil fertility, a soil robber." Mr. Hill, speaking along the same line, said: "The average American farmer has no equal for carelessness and for adhering to discredited methods of farming; we will soon be unable to feed ourselves or to feed the boasted home markets for the other industries that we are building on a constantly narrowing base."

Of course, the farmers must drain the land, thoroughly prepare the seed bed, plant prolific seed, practice frequent and shallow cultivation and make the most careful use of manures and fertilizers, but no problem is of such importance as the maintenance of the supply of plant food in the soil. The first step to be taken in order to add to the supply of plant food, is to reduce washing to a minimum. Flowing water removes more plant food in one year than is removed in five by crops sold from the farm. The addition of the vegetable matter, winter cover crops, deep plowing and properly constructed terraces will reduce the washing of land to a minimum. Diversification of crops enables the farmer's family to fare sumptuously

every day in the year on farm products, makes it possible for him to utilize three times as much land as the average farmer in such a way that his productivity rapidly increases instead of wearing out about 15 acres at the time and keeps the cotton money at home, but as James J. Hill says, our prime object in adopting a system of farming, should be to increase the fertility of the soil.

The wise farmer should always strive to grow that crop or crops which extended over a long period will possess the greatest money value. By this I do not mean that farmers should be so shortsighted as to sacrifice the fertility of their lands and future wealth for immediate returns.

Now, it has been found by actual tests on experimental plots that on a definite area, say 20 acres, that it is possible to produce as much cotton in ten years by practicing a three-year rotation of corn and peas, oats followed by peas and cotton, as it is possible to produce by planting the entire 20 acres in cotton every year.

WHY SHOULD WE HAVE A ROTATION OF CROPS?

- 1.—To Increase Crop Production.
- 2.—To Keep Soil in Good Physical Condition.
- 3.—To Distribute Work Throughout the Year.
- 4.—To Keep Out Weeds, Insects and Diseases.
- 5.—To Provide a Balanced Ration for Stock.
- 6.—To Provide a Diversity of Crops.
- 7.—To Provide for a Definite Plan for Farm Work.
- 8.—To Prevent Washing of Soil.
- 9.—There is Everything to Gain and Nothing to Lose.

Carefully conducted tests have also proven the maximum results. These tests show the absolute necessity for growing several crops and live stock.

Before adopting a system of cropping and selecting crops to grow therein, we must consider the local conditions, such as climate, labor supply, market demands and transportation facilities. We cannot grow perishable products unless we have quick transportation facilities. Even if a farm crop is not perishable and we have the quickest transportation facilities at our door, we must be careful and not glut the market. These observations being true, we find that we must devote our energies to staple farm crops such as grass, corn, oats, peas, soy beans, cane, poultry and live stock and some cotton.

Many agricultural writers and speakers are busy shaking the foundation of our present evil—the one-crop system. Their work is to a large extent destructive, not constructive. They seldom suggest a practical method to take the place of our present badly balanced, lopsided farming that compels a farmer to wear out about 15 acres at a time. It is not enough to expose the evils of the one-crop system. We must be able to show, on general lines, what system we intend to establish as a substitute, and on general lines how the average cotton farmer can do so.

The system of farming that I shall now suggest, if adopted and carried out by our cotton farmers, will, in ten years, make our soils exceedingly productive, our farmers rich, and the cotton belt the financial center of the world.

Cotton first year; corn and peas, soy beans or velvet beans, second year; oats, followed by lespedeza, soy beans or cow peas, third year; or cotton and crimson clover sowed at last working, first year; June corn and volunteer crimson clover, second year; oats, followed by soy beans, lespedeza or cow peas, third year; or cotton and crimson clover, first year; June corn and volunteer crimson clover, second year; oats, followed by lespedeza, third year; lespedeza, fourth year.

Of course, commercial fertilizers, thoroughly good permanent pastures and plenty of good live stock must be added to the above rotation or system of farming.

SECURE BENEFIT OF MANURE

Should Be Applied to Land Soon as Made and Before Plant Food Has Leached and Burned Out.

A little manure applied often bears just the same relation to the benefit of our land and crops as a moisture applied at intervals throughout the year. We should not want a deluge of water once a year and nothing between times. And the point of this is that to use the manure in a way so as to get the most benefit out of it we must spread it as fast as it is made practically throughout the year to our growing crops and hay land, says a writer in an exchange. There is always some part of our land that needs an occasional application of manure.

I believe that every reader will support me in this statement that manure applied to the land as quickly as it is made is worth at least six times as much in increasing crops as that which has lain in the barnyard until all the plant food has leached and burned out of it, and yet it takes just as much time and labor to distribute this almost worthless stuff as it does to haul it at its best.

Let's apply the manure just as soon as it is made, if possible. It's our gain.

Whitewashing Trees.

Whitewashing trees is a wholesome practice. Do it after the loose bark has been removed and burned.

YALE MAKES CHANGES

Jones and Queal Start Work in Football and Cross-Country.

Preparation for Present Season Most Elaborate in History of College—Little Change Looked for in Rowing Policy.

Two changes in Yale's coaching system went into effect with the reporting of fall squads for athletic training. In both football and cross-country work permanent paid coaches have been installed. In football, Howard Jones, the new permanent coach, has many players at Nantucket, and in cross-country running, Billy Queal, the professional champion, has most of the prominent candidates for the distance team daily working out over the hills near his home in New York state.

The need of a revision in both the football and cross-country teams' training has been seen by the new resident coaches, and the preparation for the present season is the most elaborate in the history of the two sports at Yale.

Yale has not heretofore installed a permanent coach in either of these sports. In football a head field coach, changed from year to year, has been named and no continuity in system has been secured.

In cross-country work, John Mack, the track athletic team coach, has had charge, but his duties as football team trainer and as track coach have prevented his giving much attention to the cross-country fall season. Under Queal's coaching Yale distance men last spring made the best showing in the intercollegiate in years, and it is now felt that there will be a chance for a Yale victory in the cross-country team run this fall.

Yale has re-elected two captains of losing athletic teams for another season, "Bud" Snowden of the crew and "Jack" Blossom of the baseball nine. Blossom was a member of the junior class last season, but was completely upset by losing the Harvard series and consequent championship, and stated that he would not return next year, although re-elected captain. He has changed his mind and will set the squad to work soon after college opens, in two weeks. He will reappoint as his coaches Frank Quinby, who has been coach for two years, and Bernie Tommers, who had charge of the pitchers last season. Yale has had wonderful material the past two seasons, and the same nine that swept everything before it in the early games last spring will return, with hardly an exception, for another year.

Captain Snowden has not indicated his coaching plans, but it is understood that another trial of the English stroke will be made. Snowden has been in Europe the past summer, and one report is to the effect that an English coach will come here this fall to spend the entire season in drilling the crews.

Little change is looked for in the Yale rowing policy because of the fact that Snowden was committed thoroughly to the English system of coaching last year, and it is thought that little change will be made in his advisers, the committee which shaped Yale's policy last year. Prominent among them are Averill Harriman of New York city; Fred Allen of Boston, chairman of the committee; Payne Whitney of New York city, and Alfred Cowles of Chicago. Harriman was an undergraduate and was head coach last year. It is not expected that he can give time for continuous coaching here because of his duties in connection with the Harriman estate, of which he is one of three heirs.

IRON MASK MAKES 6 FURLONGS IN 1:10 4-5

Iron Mask, by Disguise—Royal Rose, had to break the world's record for six furlongs on a circular track to defeat Leochares in the first race of the 11-day meeting which opened at Douglas park, Louisville, Ky. The new record is 1:10 4-5. Leochares led until within 20 feet of the finish and Iron Mask, having also passed Helen Barbee, which finished third, in the stretch, won by a neck. Samuel R. Meyer was the only other starter.

Iron Mask is owned by Jefferson Livingston, of Cincinnati, and is five years old.

Pitchers' Duel.

Ray Collins, with Boston, and Walter Johnson of Washington have matched their cunning in four championship games this season. Each has resulted in a shut-out and both hurlers have won two games apiece. The Collins-Johnson pitching duel started April 23 when Washington won 6 to 0. Decoration day Collins took his revenge, winning over the Danish Disaster by a 1 to 0 score. The two met again on July 3, Washington taking the game after 15 innings of play. Score, 1 to 0. Collins came back with the same score in his favor August 31.

Precedent Established.

Rock Island, Ill., has established a remarkable precedent. The municipality has carried a bond issue to buy a ball park and a franchise in the Three-I league. Five hundred women, voting their first election, were almost unanimously in favor of the move.

YALE DEPENDS MUCH ON CAPTAIN KETCHAM



Captain Ketcham of Yale.

The followers of Yale are depending much on Captain Ketcham for the success of their football team this season and that this confidence has not been misplaced has been shown by the work of the team thus far.

PENDLETON IS A TIGER STAR

Famous Athlete Has Won University Emblem Five Times—Was Football Captain Last Season.

Of the 1,500 undergraduates in Princeton university, only 44 have the privilege of wearing the varsity athletic P, according to statistics published there by the local athletic association. As freshmen are not allowed to compete on any varsity team there and as a large number of students are excluded for various other reasons, the statistics show that Princeton has only 900 men from which to draw candidates for her 16 varsity teams, and this number is cut down further by a rule which prevents a student from being a member of more than two teams in the same year.

The distinction of having received the varsity letter more times than any other man in college is borne by Talbot T. Pendleton of Berkeley Springs, W. Va., the captain of the football team during the last season.



Talbot Pendleton of Princeton.

He prepared for college at Alexandria, Va., and has won the honor three times in football and twice in baseball. As he is a sprinter of unusual ability, he undoubtedly would have won a track P had he not been prevented from running by the two sport rule. The only other student now in college to have won the letter in more than one sport is Hobart H. A. Baker of Philadelphia. Baker has two football Ps and also the letter in hockey.

New Fight Club.

Denver is becoming the fight center of the United States. Two boxing clubs have been organized within a short time.

U. S. May Quit Olympics.

Secretary James E. Sullivan of the American Olympic committee has made a criticism of England's action in raising \$500,000 for sport development as placing athletics on a basis of virtual professionalism.

"There is the same tendency," said Mr. Sullivan, "in France and in Germany, where amateur athletics are being backed by money to such a degree that it is really professionalism. If the Olympic games are to be commercialized, as they may be as a result of such practice, we Americans shall not compete any more."

Though he admired the Rheims Athletic college as "the most perfect institution of the kind in the world," Mr. Sullivan says he doesn't believe training there is sufficiently special in character to produce athletics of Olympic standard. Rheims is teaching one and the same man, for instance, to run dashes, middle distance, long distance, as well as to jump, walk and cycle.

The result is, so it is asserted, that the Rheims athlete develops a prodigious set of contradictory muscles and can't do anything sufficiently well to beat another country's best specialists in Olympics.

MACHINE TRAINS PIVOT MAN

Harvard Installs New Football Apparatus to Increase Accuracy of Players on Field.

A new piece of football apparatus has been invented and installed at Harvard by Derric Parmenter, coach of the centers.

The new device is built similar to an easel, with an oval hole in the middle of it the size of a football. This hole is at the height a kicker would receive the ball in his outstretched hands from the center for a field of a put. The centers stand in their positions and toss the ball at the open space, just as they would if a fellow player were there waiting to receive it. The machine is expected to train the pivot men to more accuracy when they relay the ball from center for kicking.

Charles Brickley, Huntington Hardwick, Frank O'Brien and Eddie Mahan, stars upon whom Harvard depends for the maintenance of her supremacy on the gridiron, appeared to be troubled down much too finely when they began work, and all four men were given but light work until the season opened, in the hope that they would not go stale.

Mahan, who was tried for the first time at quarterback, is an excellent punter and in Brickley's class as a goal kicker.

Includes Athletes of Many Lands.

The recently formed international athletic union which will have charge of the Olympic games in 1916 includes America, England, France, Sweden, Norway, Finland, Denmark, Germany, Austria-Hungary, Switzerland, South Africa, Belgium, Egypt, Australia and Canada.

Ayers Has Great Record.

Yancey Ayers, the Washington rook, with Richmond, in the Virginia league, had, according to recent figures, fanned 312 men in 23 games and issued but 23 bases on balls.

Why Old Back Ache

What a pity that so many persons past middle age are worried with lame backs, aching kidneys, poor eyesight, sick headache, dizziness, gravel, dropsy or distressing urinary ills. Kidney weakness brings these discomforts in youth or age and is a dangerous thing to neglect, for it leads to Bright's disease and uric acid poisoning. Doan's Kidney Pills have brought new strength to thousands of lame backs—have rid thousands of annoying urinary trouble.

An Indiana Case

Samuel Haley, grocer, 922 W. Race St., Portland, Ind., says: "My kidneys and bladder were in terrible condition. My kidneys acted too frequently and my back ached terribly. Nothing helped me until I used Doan's Kidney Pills. It didn't take them long to cure me and I believe they saved my life."

Get Doan's at Any Store, 50c a Box
DOAN'S KIDNEY PILLS
FOSTER-MILBURN CO., BUFFALO, N. Y.

WRIGHT'S INDIAN VEGETABLE PILLS

are not only Purgative. They combine remedial properties whose special function it is to restore to healthy activity all the digestive and diuretic processes.

Use them for poor appetite, sour stomach, sick headache, constipation and indigestion.

CANCER FREE TREATISE
The Leach Sanatorium, Indianapolis, Ind., has published a booklet which gives interesting facts about the cause of Cancer, also tells what to do for pain, bleeding, odor, etc. Write for it today, mentioning this paper.

PATENTS Watson E. Coleman, Washington, D. C., Bookkeeper, High end references. Best results.

RAZOR \$1 postpaid. Best steel; hollow ground; guaranteed satisfactory. Buck Co., North St., Baltimore, Md.

FOR INFORMATION about best part of Florida, write BOARD OF TRADE, FT. MEADE, FLORIDA.

Hash is the stuff some queer dreams are made of.

Don't neglect a cold. It means Consumption or Pneumonia. Doan's Menthol and Cough Drops check colds—5c at Druggists.

Many a man gets to be conceited by thinking he isn't.

Red Cross Ball Blue gives double value for your money, goes twice as far as any other. Don't put your money into any other. Adv.

Gretna Green Ceremony.

A young couple who arrived at Berwick the other Sunday were married after the Scottish fashion in a delightfully simple way.

They drove over the border into Scotland, and, stopping at a spot where two men were seated, the young man said that he and the lady wished to be married and that they could not adopt the conventional method, as it would be stopped directly the banns were put up.

The couple then formally took each other for man and wife before the two witnesses, and a document to that effect was produced and signed by the parties and the witnesses.

Signatures on Paintings.
Experts rarely rely on signatures alone to determine the authenticity of an old painting, but trust rather to their knowledge of the painter's technique. Sometimes the painter's name is found in a conspicuous place, as, for instance, in Raphael's "Sposazzo" at Milan.

Proud of having surpassed his master the youthful genius wrote on a frieze in the very center of the canvas, Raphael Urbinas.

Reynolds hardly ever signed his work. But upon the completion of the portrait of Mrs. Siddons as "The Tragic Muse," he wrote his name large on the gold embroidery of her dress. He was unable, he said, "to resist the temptation of sending my name to posterity on the hem of your garment."

A FOOD DRINK Which Brings Daily Enjoyment.

A lady doctor writes: "Though busy hourly with my own affairs, I will not deny myself the pleasure of taking a few minutes to tell of my enjoyment daily obtained from my morning cup of Postum. It is a food beverage, not an irritant like coffee. I began to use Postum 8 years ago, not because I wanted to, but because coffee, which I dearly loved, made my nights long, weary periods to be dreaded and unfitting me for business during the day."

"On advice of a friend, I first tried Postum, making it carefully as suggested on the package. As I had always used 'cream and sugar' I mixed my Postum so. It looked good, was clear and fragrant, and it was a pleasure to see the cream color it was to look—like a new saddle."

"Then I tasted it critically, for I had tried many 'substitutes' for coffee. I was pleased, yes, satisfied with my Postum in taste and effect, and am yet, being a constant user of it all these years. I continually assure my friends and acquaintances that they will like it in place of coffee, and receive benefit from its use. I have gained weight, can sleep and am not nervous."

Name given by Postum Co., Battle Creek, Mich. Write for the little book, "The Road to Wellville."

Postum comes in two forms: Regular Postum—must be well boiled.

Instant Postum is a soluble powder. A teaspoonful dissolves quickly in a cup of hot water and, with cream and sugar, makes a delicious beverage instantly. Grocers sell both kinds.

"There's a reason" for Postum.